

YUNEEC International (China) Co., Ltd.

Motion Camera

Main Model: C-GO1

Serial Model: N/A

March 06, 2014

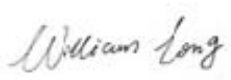
Report No.: 14050004-FCC-H1-V1

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

		
William Long Compliance Engineer	Alex Liu Technical Manager	

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Test result presented in this test report is applicable to the representative sample only.

RF Exposure Evaluation Report

To: FCC 2.1091: 2013

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Laboratory Introduction

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Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless ,Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety

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1. EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the YUNEEC International (China) Co., Ltd., Motion Camera and model: C-GO1 against the current Stipulated Standards. The Motion Camera has demonstrated compliance with the FCC 2.1091: 2013.

EUT Information

EUT Description	Motion Camera
Main Model	C-GO1
Serial Model	N/A
Antenna Gain	WIFI: 0dBi
Input Power	Model: YP-1 Li-Po BATTERY PACK 3.7V 1050mAh
Maximum Conducted Peak Power to Antenna	20dBm
Classification Per Stipulated Test Standard	FCC 2.1091: 2013

2. TECHNICAL DETAILS

Purpose	Compliance testing of Motion Camera with stipulated standard
Applicant / Client	YUNEEC International (China) Co., Ltd. No.388, Zhengwei Road, Jinxi Town, Kunshan, Jiangsu, China
Manufacturer	YUNEEC International (China) Co., Ltd. No.388, Zhengwei Road, Jinxi Town, Kunshan, Jiangsu, China
Laboratory performing the tests	SIEMIC (Nanjing-China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: China@siemic.com
Test report reference number	14050004-FCC-H1-V1
Date EUT received	February 20, 2014
Standard applied	FCC 2.1091: 2013
Dates of test	February 28 to March 01, 2014
No of Units	#1
Equipment Category	DTS
Trade Name	YUNEEC
RF Operating Frequency (ies)	5745 MHz
Number of Channels	802.11a: CH 149(Only one channel)
Modulation	OFDM
FCC ID	2ABB5-C-GO1

3. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FCC §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Test Data

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

Where: S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Note: base on different type antenna and their gain, the bellow result is the worst case.

802.11a:

Maximum peak output power at antenna input terminal: 17.5(dBm)

Maximum peak output power at antenna input terminal: 56 (mW)

Prediction distance: >20 (cm)

Predication frequency: 5745 (MHz)

Antenna Gain (typical): 0 (dBi)

Antenna Gain (typical): 1 (numeric)

The worst case is power density at predication frequency at 20 cm: 0.011 (mW/cm²)

MPE limit for general population exposure at prediction frequency: 1.0 (mW/cm²)

0.011(mW/cm²) < 1.0(mW/cm²)

Result: Pass